

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-33. (Canceled)

34. (Withdrawn) An optical component for transmitting radiation from an object to a radiation sensor, said optical component including a solid body defining a radiation path within the body, said solid body comprising:

a radiation entrance surface for receiving radiation into said radiation path, said entrance surface including a lens element,

a radiation exit surface,

a tubular part for transmitting radiation in the radiation path along a longitudinal axis of the tubular part, and

a mirror surface at an end of the tubular part opposite the entrance surface, wherein a normal of the mirror surface is slanted to the longitudinal axis of the tubular part such that the radiation path is redirected in the mirror surface towards the radiation exit surface of the solid body.

35. (Withdrawn) The optical component according to claim 34, further comprising a holder for a radiation source for illuminating said object.

36. (Withdrawn) The optical component according to claim 34, wherein said lens element defines an image plane at said radiation exit end, and wherein said solid body defines a barrier in said tubular part to screen said image plane from said radiation entrance surface.

37. (Withdrawn) The optical component according to claim 34, further comprising an element for defining an aperture stop on said radiation entrance surface.

38. (Currently amended) A modular unit for an electronic pen having a writing implement, said modular unit comprising:

a carrier having a receiver for receiving the writing implement,

a printed circuit board mounted on the carrier, the printed circuit board having at least one hole,

a two-dimensional radiation sensor ~~mounted~~ surface-mounted on the printed circuit board, the sensor positioned on the printed circuit board with respect to the least one hole,

an imaging unit designed to control a spatial origin of radiation reaching the radiation sensor, the imaging unit defining an image plane and an object plane, the imaging unit having a body and a holder that is associated with an outer part of the body, the imaging unit further having at least one pin, and

a radiation source for illuminating the object plane, the radiation source being held by the holder of the imaging unit,

wherein the imaging unit is aligned with the printed circuit board such that the at least one pin of the imaging unit is inserted in the at least one hole of the printed circuit board to align the imaging unit to locate the image plane on the radiation sensor,
and

wherein the carrier, the printed circuit board, and the imaging unit are coupled together such that the printed circuit board is positioned between the carrier

~~and the imaging unit joined together with the imaging unit facing the radiation sensor to locate the image plane at the radiation sensor.~~

39-41. (Canceled)

42. (Previously presented) The modular unit according to claim 38, further comprising an electrical connection between the radiation source and the printed circuit board.

43. (Currently amended) The modular unit according to claim 42, ~~further comprising an electrical connection between the radiation source and the printed circuit board,~~ wherein the electrical connection exerts a clamping force between the imaging unit and the printed circuit board.

44. (Previously presented) The modular unit according to claim 38, wherein the printed circuit board is supported by the carrier.

45. (Previously presented) The modular unit according to claim 38, wherein the printed circuit board is attached to the carrier.

46. (Previously presented) The modular unit according to claim 38, wherein the imaging unit is supported by the printed circuit board.

47. (Previously presented) The modular unit according to claim 38, wherein the imaging unit is attached to the printed circuit board.

48. (Previously presented) The modular unit according to claim 38, further comprising at least one connector for attaching at least part of an outer casing of said electronic pen.

49-52. (Canceled)

53. (Previously presented) The modular unit according to claim 38, wherein the holder is integrated with the outer part of the body.

54. (Previously presented) The modular unit according to claim 38, wherein the holder is attached to the outer part of the body.

55. (New) The modular unit according to claim 38, wherein the carrier further includes a guide pin, the printed circuit board has a guide pin receiving hole, and wherein the printed circuit board is mounted on the carrier such that the guide pin is inserted into the guide pin receiving hole.

56. (New) A modular unit for an electronic pen having a writing implement, said modular unit comprising:

a carrier having a receiver for receiving the writing implement,

a printed circuit board mounted on the carrier,

a two-dimensional radiation sensor surface-mounted on the printed circuit board,

an imaging unit designed to control a spatial origin of radiation reaching the radiation sensor, the imaging unit defining an image plane and an object plane, the imaging unit having a body and a holder that is associated with an outer part of the body, and

a radiation source for illuminating the object plane, the radiation source being held by the holder of the imaging unit,

wherein the carrier, the printed circuit board, and the imaging unit are coupled together such that the printed circuit board is positioned between the carrier and the imaging unit.

57. (New) The modular unit according to claim 56, wherein:
the printed circuit board has at least one hole,
the sensor is positioned on the printed circuit board with respect to the
least one hole,
the imaging unit has at least one pin, and
the imaging unit is aligned with the printed circuit board such that the at
least one pin of the imaging unit is inserted in the at least one hole of the printed circuit
board to align the imaging unit to locate the image plane on the radiation sensor.
58. (New) The modular unit according to claim 56, wherein the carrier includes
a guide pin, the printed circuit board has a guide pin receiving hole, and wherein the
printed circuit board is mounted on the carrier such that the guide pin is inserted into the
guide pin receiving hole.
59. (New) The modular unit according to claim 56, further comprising an
electrical connection between the radiation source and the printed circuit board.
60. (New) The modular unit according to claim 59, wherein the electrical
connection exerts a clamping force between the imaging unit and the printed circuit
board.
61. (New) The modular unit according to claim 56, wherein the printed circuit
board is supported by the carrier.
62. (New) The modular unit according to claim 56, wherein the printed circuit
board is attached to the carrier.
63. (New) The modular unit according to claim 56, wherein the imaging unit is
supported by the printed circuit board.

64. (New) The modular unit according to claim 56, wherein the imaging unit is attached to the printed circuit board.

65. (New) The modular unit according to claim 56, further comprising at least one connector for attaching at least part of an outer casing of said electronic pen.

66. (New) The modular unit according to claim 56, wherein the holder is integrated with the outer part of the body.

67. (New) The modular unit according to claim 56, wherein the holder is attached to the outer part of the body.

68. (New) A modular unit for an electronic pen having a writing implement, said modular unit comprising:

a carrier having a receiver for receiving the writing implement,

a printed circuit board mounted on the carrier, the printed circuit board having at least one hole,

a two-dimensional radiation sensor surface-mounted on the printed circuit board, the sensor positioned on the printed circuit board with respect to the least one hole,

an imaging unit designed to control a spatial origin of radiation reaching the radiation sensor, the imaging unit defining an image plane and an object plane, the imaging unit having a body and a holder that is associated with an outer part of the body, the imaging unit further having at least one pin, and

a radiation source for illuminating the object plane, the radiation source being held by the holder of the imaging unit,

wherein the imaging unit is aligned with the printed circuit board such that the at least one pin of the imaging unit is inserted in the at least one hole of the printed circuit board to align the imaging unit to locate the image plane on the radiation sensor.

69. (New) The modular unit according to claim 68, wherein the carrier, the printed circuit board, and the imaging unit are coupled together such that the printed circuit board is positioned between the carrier and the imaging unit.

70. (New) The modular unit according to claim 68, wherein the carrier includes a guide pin, the printed circuit board has a guide pin receiving hole, and wherein the printed circuit board is mounted on the carrier such that the guide pin is inserted into the guide pin receiving hole.

71. (New) The modular unit according to claim 68, further comprising an electrical connection between the radiation source and the printed circuit board.

72. (New) The modular unit according to claim 71, wherein the electrical connection exerts a clamping force between the imaging unit and the printed circuit board.

73. (New) The modular unit according to claim 68, wherein the printed circuit board is supported by the carrier.

74. (New) The modular unit according to claim 68, wherein the printed circuit board is attached to the carrier.

75. (New) The modular unit according to claim 68, wherein the imaging unit is supported by the printed circuit board.

76. (New) The modular unit according to claim 68, wherein the imaging unit is attached to the printed circuit board.

77. (New) The modular unit according to claim 68, further comprising at least one connector for attaching at least part of an outer casing of said electronic pen.

78. (New) The modular unit according to claim 68, wherein the holder is integrated with the outer part of the body.

79. (New) The modular unit according to claim 68, wherein the holder is attached to the outer part of the body.